

## Appendix B

## **Explanatory Key for Automated Analysis of 800 MHz Rebanding in 66 Markets**

**Before Section** – Uses today's licensing data and today's licensing allocation in the 800 MHz band.

**Existing PS in Channels 1-120** – Number of channels licensed to public safety licensees between channels 1-120 in the identified city that need to be relocated.

**Existing PS in Channels 321-400** - Number of channels licensed to public safety licensees between channels 321-400 in the identified city that need to be relocated down to channels 121-320.

**Existing SMR/B/ILT in Channels 1 to 120** - Number of channels licensed to SMR/B/ILT licensees between channels 1-120 in the identified city that need to be relocated.

**Existing Nextel Channels in 121 to 320** - Number of channels licensed to Nextel between channels 121-320 in the identified city that need to be vacated by Nextel.

**Existing Nextel Channels in 321 to 400** - Number of channels licensed to Nextel between channels 321-400 in the identified city that need to be vacated by Nextel.

**After Section** – Based on the methodology described herein, this section shows the post-realignment spectrum gains of Public Safety and SMR/B/ILT under the ITA Compromise proposal.

**PS Channels Needed to Relocate from Channels 321-400** – Number of channels licensed to public safety that remain to be relocated from channels 321-400 after Nextel vacates the lower 400 channels. In almost all cases, this number is zero. In three cities (Atlanta, New Orleans and Baltimore), additional spectrum must be acquired between channels 121-320 to relocate these remaining public safety licensees. This could be accomplished by relocating incumbent SMR/B/ILTs from the 121-320 channels to 321-400 channels.

**SMR/B/ILT Channels Needed to Relocate from Channels 1 to 120** - Number of channels licensed to SMR/B/ILTs that remain to be relocated from channels 1 to 120 after Nextel vacates the lower 400 channels. In almost all cases, this number is zero. In Atlanta, additional spectrum must be acquired between 121-320 or 321-400 to relocate these remaining SMR/B/ILT licensees. If additional channels are acquired for public safety to

relocate from channels 321-400 to channels 121-320, spectrum will then be available for SMR/B/ILTs to be relocated. Similarly, in New Orleans if additional channels are acquired for public safety between channels 121-320, spectrum will be available to relocate the remaining SMR/B/ILTs from channels 1-120.

Additional Channels from 121 to 320 Created– Number of channels that are created between channels 121 to 320 after Nextel has vacated the lower 800 MHz band and relocations are completed.

Additional Channels from 321 to 400 Created - Number of channels that are created for channels 321 to 400 after Nextel has vacated the lower 800 MHz band and relocations are completed.

**AUTOMATED ANALYSIS OF 800 MHZ REBANDING IN 66 MARKETS**

		Before					After								
City		Existing PS in Channels 1-120	Existing PS in Channels 321-400	Existing SMR/B/ILT in Channels 1 to 120	Existing Nextel Channels in 121 to 320	Existing Nextel Channels in 321 to 400	PS Channels Remaining to be Relocated from Channels 321-400	SMR/B/ILT Channels Remaining to be Relocated from Channels 1 to 120	Additional Channels from 121 to 320 Created	Additional Channels from 321 to 400 Created					
Los Angeles	CA	20	32	59	55	33	0	0	3					6	
New York	NY	12	29	57	59	28	0	0	18					0	
Chicago	IL	9	25	31	96	39	0	0	62					33	
Philadelphia	PA	15	29	50	73	34	0	0	29					13	
Washington	DC	34	32	36	68	31	0	0	2					27	
Boston	MA	21	37	15	93	35	0	0	35					57	
Houston	TX	1	24	22	77	33	0	0	52					35	
Atlanta	GA	43	25	54	51	28	17	18	0					0	
Dallas	TX	7	32	25	97	43	0	0	58					50	
Minneapolis	MN	17	21	47	58	31	0	0	20					5	
St Louis	MO	1	16	30	67	26	0	0	50					12	
Phoenix	AZ	14	24	19	97	41	0	0	59					46	
Pittsburgh	PA	3	22	0	90	35	0	0	65					57	
Miami	FL	42	37	8	91	38	0	0	12					67	
Denver	CO	7	26	33	77	33	0	0	44					26	
San Francisco	CA	6	24	36	79	35	0	0	49					23	
Kansas City	MO	9	27	14	85	35	0	0	49					48	
Sacramento	CA	2	24	26	67	31	0	0	41					29	
Cincinnati	OH	16	25	24	66	31	0	0	25					32	
Norfolk	VA	13	25	21	71	31	0	0	33					35	
Milwaukee	WI	0	17	15	99	39	0	0	82					41	
San Antonio	TX	2	30	8	70	25	0	0	38					47	
Portland	OR	25	27	17	79	36	0	0	27					46	
Indianapolis	IN	2	26	34	66	28	0	0	38					20	
New Orleans	LA	38	33	55	54	30	17	9	0					0	
Charlotte	NC	18	24	23	54	20	0	0	12					21	
Orlando	FL	29	26	28	86	39	0	0	31					37	
Hartford	CT	17	32	19	86	30	0	0	37					43	
Salt Lake City	UT	3	20	3	83	24	0	0	60					41	
Nashville	TN	2	24	13	68	26	0	0	42					37	
Memphis	TN	2	32	44	63	28	0	0	29					16	
Oklahoma City	OK	3	24	7	99	42	0	0	72					59	
Louisville	KY	3	17	11	93	21	0	0	73					27	
Jacksonville	FL	17	24	21	95	46	0	0	54					49	
Birmingham	AL	1	22	67	54	26	0	0	12					0	
Austin	TX	0	24	18	62	27	0	0	38					33	
Las Vegas	NV	0	22	46	75	32	0	0	53					8	
Raleigh	NC	10	26	8	61	25	0	0	25					43	
Tulsa	OK	0	20	2	72	24	0	0	52					42	
Grand Rapids	MI	9	17	5	88	31	0	0	62					43	
Omaha	NE	0	20	29	73	29	0	0	53					20	
Knoxville	TN	0	18	25	35	2	0	0	12					0	
Charleston	SC	0	20	10	62	28	0	0	42					38	
Little Rock	AR	7	32	40	47	18	0	0	8					10	
Albuquerque	NM	2	17	4	82	19	0	0	63					32	
Mobile	AL	10	24	56	48	28	0	0	10					0	
Des Moines	IA	0	15	3	65	15	0	0	50					27	
Jackson	MS	8	21	25	68	32	0	0	39					28	
Beaumont	TX	0	21	48	38	12	0	0	2					0	
Corpus Christi	TX	0	12	8	64	25	0	0	52					29	

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		Before					After			
City		Existing PS in Channels 1-120	Existing PS in Channels 321-400	Existing SMR/B/ILT in Channels 1 to 120	Existing Nextel Channels in 121 to 320	Existing Nextel Channels in 321 to 400	PS Channels Remaining to be Relocated from Channels 321-400	SMR/B/ILT Channels Remaining to be Relocated from Channels 1 to 120	Additional Channels from 121 to 320 Created	Additional Channels from 321 to 400 Created
Reno	NV	0	24	13	70	23	0	0	46	34
Boise	ID	0	5	8	68	27	0	0	63	24
Billings	MT	0	0	14	30	6	0	0	22	0
Peoria	IL	0	16	20	48	18	0	0	32	14
Baltimore	MD	34	26	35	52	39	8	0	0	22
Pensacola	FL	8	23	47	45	27	0	0	14	3
Baton Rouge	LA	27	16	39	51	28	0	0	8	5
Fresno	CA	3	8	26	69	30	0	0	58	12
Ft Lauderdale	FL	53	35	13	88	38	0	0	0	60
Gainesville	FL	17	22	5	81	39	0	0	42	56
Melbourne	FL	13	23	4	106	45	0	0	70	64
Naples	FL	11	24	6	102	47	0	0	67	65
Ocala	FL	19	24	8	109	45	0	0	66	61
Sarasota	FL	20	24	19	102	46	0	0	58	51
Tampa	FL	29	26	25	94	42	0	0	39	43
Tallahassee	FL	8	18	45	68	28	0	0	42	1